J.Andres

SEQUENCE LISTING

```
 4 (1) GENERAL INFORMATION:
 6        (i) APPLICANT: Hinuma, Shuji
 7                       Hosoya, Masaki
 8                       Fujii, Ryo
 9                       Ohtaki, Tetsuya
10                       Fukusumi, Shoji
11                       Ohgi, Kazuhiro
13       (ii) TITLE OF INVENTION: G PROTEIN COUPLED RECEPTOR PROTEIN,
14                                 PRODUCTION, AND USE THEREOF
16      (iii) NUMBER OF SEQUENCES: 380
18       (iv) CORRESPONDENCE ADDRESS:
19            (A) ADDRESSEE: DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP
20            (B) STREET: 130 Water Street
21            (C) CITY: Boston
22            (D) STATE: MA
23            (E) COUNTRY: USA
24            (F) ZIP: 02109
26        (v) COMPUTER READABLE FORM:
27            (A) MEDIUM TYPE: Floppy disk
28            (B) COMPUTER: IBM PC compatible
29            (C) OPERATING SYSTEM: PC-DOS/MS-DOS
30            (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
32       (vi) CURRENT APPLICATION DATA:
C--> 33       (A) APPLICATION NUMBER: US/09/461,436
C--> 34       (B) FILING DATE: 14-Dec-1999
35            (C) CLASSIFICATION:
77      (vii) PRIOR APPLICATION DATA:
38            (A) APPLICATION NUMBER: 08/513,974
39            (B) FILING DATE:
42            (A) APPLICATION NUMBER: JP 7-093989
43            (B) FILING DATE: 19-AUG-1995
46            (A) APPLICATION NUMBER: JP 7-057186
47            (B) FILING DATE: 16-MAR-1995
50            (A) APPLICATION NUMBER: JP 7-007177
51            (B) FILING DATE: 20-JAN-1995
54            (A) APPLICATION NUMBER: JP 6-326611
55            (B) FILING DATE: 28-DEC-1994
58            (A) APPLICATION NUMBER: JP 6-270017
59            (B) FILING DATE: 02-NOV-1994
62            (A) APPLICATION NUMBER: JP 6-236357
63            (B) FILING DATE: 30-SEP-1994
66            (A) APPLICATION NUMBER: JP 6-236356
67            (B) FILING DATE: 30-SEP-1994
70            (A) APPLICATION NUMBER: JP 6-189274
71            (B) FILING DATE: 11-AUG-1994
74            (A) APPLICATION NUMBER: JP 6-189273
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RAW SEQUENCE LISTING   DATE: 10/29/2001
PATENT APPLICATION: US/09/461,436   TIME: 11:02:21

Input Set : N:\Crf3\RULE60\09461436.txt
Output Set: N:\CRF3\10292001\I461436.raw

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75           (B) FILING DATE: 11-AUG-1945
78           (A) APPLICATION NUMBER: JP 6-189272
79           (B) FILING DATE: 11-AUG-1994
81    (viii) ATTORNEY/AGENT INFORMATION:
82           (A) NAME: Resnick, David S.
83           (B) REGISTRATION NUMBER: 34,235
84           (C) REFERENCE/DOCKET NUMBER: 45753
86     (ix) TELECOMMUNICATION INFORMATION:
87           (A) TELEPHONE: 617-523-3400
88           (B) TELEFAX: 617-523-6440
91 (2) INFORMATION FOR SEQ ID NO: 1:
93      (i) SEQUENCE CHARACTERISTICS:
94           (A) LENGTH: 25 base pairs
95           (B) TYPE: nucleic acid
96           (C) STRANDEDNESS: single
97           (D) TOPOLOGY: linear
99     (ii) MOLECULE TYPE: other nucleic acid
100           (A) DESCRIPTION: /desc = "synthetic DNA"
105     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
107 CGTGGSCMTS STGGGCAACN YCCTG                                      25
109 (2) INFORMATION FOR SEQ ID NO: 2:
111      (i) SEQUENCE CHARACTERISTICS:
112           (A) LENGTH: 27 base pairs
113           (B) TYPE: nucleic acid
114           (C) STRANDEDNESS: single
115           (D) TOPOLOGY: linear
117     (ii) MOLECULE TYPE: other nucleic acid
118           (A) DESCRIPTION: /desc = "synthetic DNA"
123     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
125 GTNGWRRGGC ANCCAGCAGA KGGCAAA                                    27
127 (2) INFORMATION FOR SEQ ID NO: 3:
129      (i) SEQUENCE CHARACTERISTICS:
130           (A) LENGTH: 27 base pairs
131           (B) TYPE: nucleic acid
132           (C) STRANDEDNESS: single
133           (D) TOPOLOGY: linear
135     (ii) MOLECULE TYPE: other nucleic acid
136           (A) DESCRIPTION: /desc = "synthetic DNA
138     (ix) FEATURE:
139           (D) OTHER INFORMATION: N = inosine
142     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
144 CTCGCSGCYM TNRGYATGGA YCGNTAT                                    27
146 (2) INFORMATION FOR SEQ ID NO: 4:
148      (i) SEQUENCE CHARACTERISTICS:
149           (A) LENGTH: 30 base pairs
150           (B) TYPE: nucleic acid
151           (C) STRANDEDNESS: single
152           (D) TOPOLOGY: linear
154     (ii) MOLECULE TYPE: other nucleic acid
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PATENT APPLICATION: US/09/461,436 TIME: 11:02:21

Input Set : N:\Crf3\RULE60\09461436.txt
Output Set: N:\CRF3\10292001\I461436.raw

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155          (A) DESCRIPTION: /desc = "synthetic DNA
157     (ix) FEATURE:
158          (D) OTHER INFORMATION: N = inosine
161     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
163 CATGTRGWAG GGAANCCAGS AMANRARRAA                              30
165 (2) INFORMATION FOR SEQ ID NO: 5:
167     (i) SEQUENCE CHARACTERISTICS:
168          (A) LENGTH: 27 base pairs
169          (B) TYPE: nucleic acid
170          (C) STRANDEDNESS: single
171          (D) TOPOLOGY: linear
173     (ii) MOLECULE TYPE: other nucleic acid
174          (A) DESCRIPTION: /desc = "synthetic DNA
177     (ix) FEATURE:
178          (D) OTHER INFORMATION: N = inosine
180     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
182 CTGACYGYTC TNRSNRYTGA CMGVTAC                                 27
184 (2) INFORMATION FOR SEQ ID NO: 6:
186     (i) SEQUENCE CHARACTERISTICS:
187          (A) LENGTH: 27 base pairs
188          (B) TYPE: nucleic acid
189          (C) STRANDEDNESS: single
190          (D) TOPOLOGY: linear
192     (ii) MOLECULE TYPE: other nucleic acid
193          (A) DESCRIPTION: /desc = "synthetic DNA
196     (ix) FEATURE:
197          (D) OTHER INFORMATION: N = inosine
199     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
201 CTGACYGYTC TNRSNRYTGA CMGVTAT                                 27
203 (2) INFORMATION FOR SEQ ID NO: 7:
205     (i) SEQUENCE CHARACTERISTICS:
206          (A) LENGTH: 27 base pairs
207          (B) TYPE: nucleic acid
208          (C) STRANDEDNESS: single
209          (D) TOPOLOGY: linear
211     (ii) MOLECULE TYPE: other nucleic acid
212          (A) DESCRIPTION: /desc = "synthetic DNA
214     (ix) FEATURE:
215          (D) OTHER INFORMATION: N = inosine
218     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
220 CTCGCSGCYM TNRGYATGGA YCGNTAC                                 27
222 (2) INFORMATION FOR SEQ ID NO: 8:
224     (i) SEQUENCE CHARACTERISTICS:
225          (A) LENGTH: 30 base pairs
226          (B) TYPE: nucleic acid
227          (C) STRANDEDNESS: single
228          (D) TOPOLOGY: linear
230     (ii) MOLECULE TYPE: other nucleic acid
231          (A) DESCRIPTION: /desc = "synthetic DNA
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RAW SEQUENCE LISTING   DATE: 10/29/2001
PATENT APPLICATION: US/09/461,436   TIME: 11:02:21

Input Set : N:\Crf3\RULE60\09461436.txt
Output Set: N:\CRF3\10292001\I461436.raw

```
233     (ix) FEATURE:
234           (D) OTHER INFORMATION: N = inosine
237     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
239 GATGTGGRTAR GGSRNCCAAC AGANGRYAAA                                    30
241 (2) INFORMATION FOR SEQ ID NO: 9:
243     (i) SEQUENCE CHARACTERISTICS:
244           (A) LENGTH: 30 base pairs
245           (B) TYPE: nucleic acid
246           (C) STRANDEDNESS: single
247           (D) TOPOLOGY: linear
249     (ii) MOLECULE TYPE: other nucleic acid
250           (A) DESCRIPTION: /desc = "synthetic DNA
253     (ix) FEATURE:
254           (D) OTHER INFORMATION: N = inosine
256     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
258 GATGTGGRTAR GGSRNCCAAC AGANGRYGAA                                    30
260 (2) INFORMATION FOR SEQ ID NO: 10:
262     (i) SEQUENCE CHARACTERISTICS:
263           (A) LENGTH: 27 base pairs
264           (B) TYPE: nucleic acid
265           (C) STRANDEDNESS: single
266           (D) TOPOLOGY: linear
268     (ii) MOLECULE TYPE: other nucleic acid
269           (A) DESCRIPTION: /desc = "synthetic DNA
272     (ix) FEATURE:
273           (D) OTHER INFORMATION: N = inosine
275     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
277 GYCACCAACN WSTTCATCCT SWNHCTG                                        27
279 (2) INFORMATION FOR SEQ ID NO: 11:
281     (i) SEQUENCE CHARACTERISTICS:
282           (A) LENGTH: 27 base pairs
283           (B) TYPE: nucleic acid
284           (C) STRANDEDNESS: single
285           (D) TOPOLOGY: linear
287     (ii) MOLECULE TYPE: other nucleic acid
288           (A) DESCRIPTION: /desc = "synthetic DNA
291     (ix) FEATURE:
292           (D) OTHER INFORMATION: N = inosine
294     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
296 ASNSANRAAG SARTAGANGA NRGGRTT                                        27
298 (2) INFORMATION FOR SEQ ID NO: 12:
300     (i) SEQUENCE CHARACTERISTICS:
301           (A) LENGTH: 25 base pairs
302           (B) TYPE: nucleic acid
303           (C) STRANDEDNESS: single
304           (D) TOPOLOGY: linear
306     (ii) MOLECULE TYPE: other nucleic acid
307           (A) DESCRIPTION: /desc = "synthetic DNA
309     (ix) FEATURE:
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RAW SEQUENCE LISTING   DATE: 10/29/2001
PATENT APPLICATION: US/09/461,436   TIME: 11:02:21

Input Set : N:\Crf3\RULE60\09461436.txt
Output Set: N:\CRF3\10292001\I461436.raw

```
310              (D) OTHER INFORMATION: N = inosine
313      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
315  TGNTSSTKMT NGSNGTKGTN GGNAA                                    25
317  (2) INFORMATION FOR SEQ ID NO: 13:
319       (i) SEQUENCE CHARACTERISTICS:
320              (A) LENGTH: 25 base pairs
321              (B) TYPE: nucleic acid
322              (C) STRANDEDNESS: single
323              (D) TOPOLOGY: linear
325      (ii) MOLECULE TYPE: other nucleic acid
326              (A) DESCRIPTION: /desc = "synthetic DNA
329      (ix) FEATURE:
330              (D) OTHER INFORMATION: N = inosine
332      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
334  AYCKGTAYCK GTCCANKGWN ATKGC                                    25
336  (2) INFORMATION FOR SEQ ID NO: 14:
338       (i) SEQUENCE CHARACTERISTICS:
339              (A) LENGTH: 24 base pairs
340              (B) TYPE: nucleic acid
341              (C) STRANDEDNESS: single
342              (D) TOPOLOGY: linear
344      (ii) MOLECULE TYPE: other nucleic acid
345              (A) DESCRIPTION: /desc = "synthetic DNA
348      (ix) FEATURE:
349              (D) OTHER INFORMATION: N = inosine
351      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
353  CATKKCCSTG GASAGNTAYN TRGC                                     24
355  (2) INFORMATION FOR SEQ ID NO: 15:
357       (i) SEQUENCE CHARACTERISTICS:
358              (A) LENGTH: 24 base pairs
359              (B) TYPE: nucleic acid
360              (C) STRANDEDNESS: single
361              (D) TOPOLOGY: linear
363      (ii) MOLECULE TYPE: other nucleic acid
364              (A) DESCRIPTION: /desc = "synthetic DNA
367      (ix) FEATURE:
368              (D) OTHER INFORMATION: N = inosine
370      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
372  GWWGGGSAKC CAGCASANGG CRAA                                     24
374  (2) INFORMATION FOR SEQ ID NO: 16:
376       (i) SEQUENCE CHARACTERISTICS:
377              (A) LENGTH: 18 base pairs
378              (B) TYPE: nucleic acid
379              (C) STRANDEDNESS: single
380              (D) TOPOLOGY: linear
382      (ii) MOLECULE TYPE: other nucleic acid
383              (A) DESCRIPTION: /desc = "synthetic DNA
385      (ix) FEATURE:
386              (D) OTHER INFORMATION: N at position 6, 9, 10 & 12 = inosine;
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VERIFICATION SUMMARY   DATE: 10/29/2001
PATENT APPLICATION: US/09/461,436   TIME: 11:02:22

Input Set : **N:\Crf3\RULE60\09461436.txt**
Output Set: **N:\CRF3\10292001\I461436.raw**

L:33 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:34 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:8088 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:343
L:8169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:344